ACTIVE TRANSPORTATION: DESIGNING COMMUNITIES FOR HEALTH

RESEARCH DIVISION

MAY 23, 2019





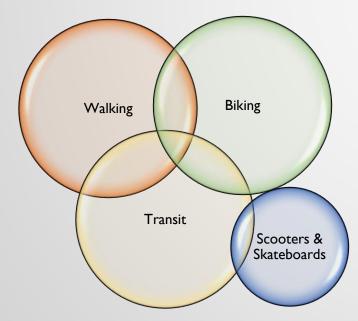
Active Transportation A Local Action

- Active transportation: Using physical activity to travel
 - Well known to improve health
 - Continuing challenge to increase through urban design and transportation planning
- Local agencies need:
 - Tools to quantify health benefits
 - Information/guidance on urban design
 - Funding



ACTIVE TRANSPORTATION HAS EXPANDED AND IS STILL EVOLVING

- Successful programs provide adequate services, infrastructure, and integrated options
- Shared bikes and scooters increasing in cities



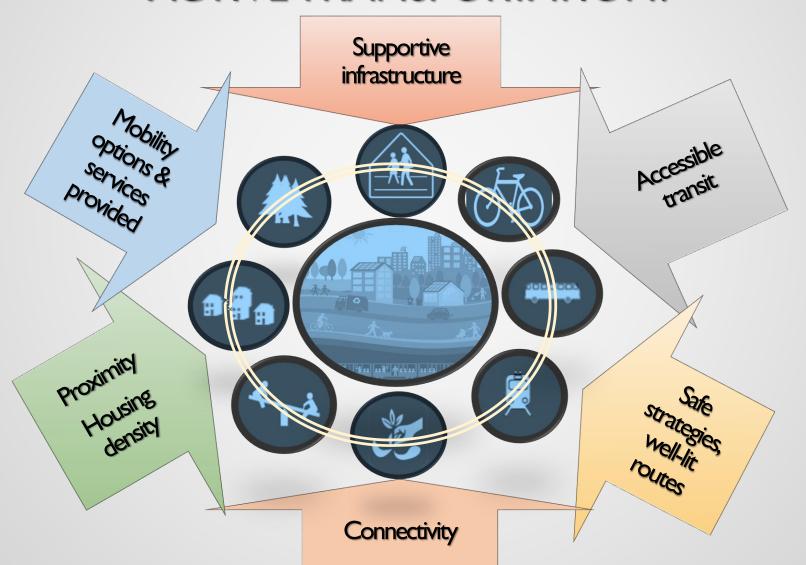


WHY IS INCREASING ACTIVE TRANSPORTATION IMPORTANT FOR HEALTH IN CALIFORNIA?

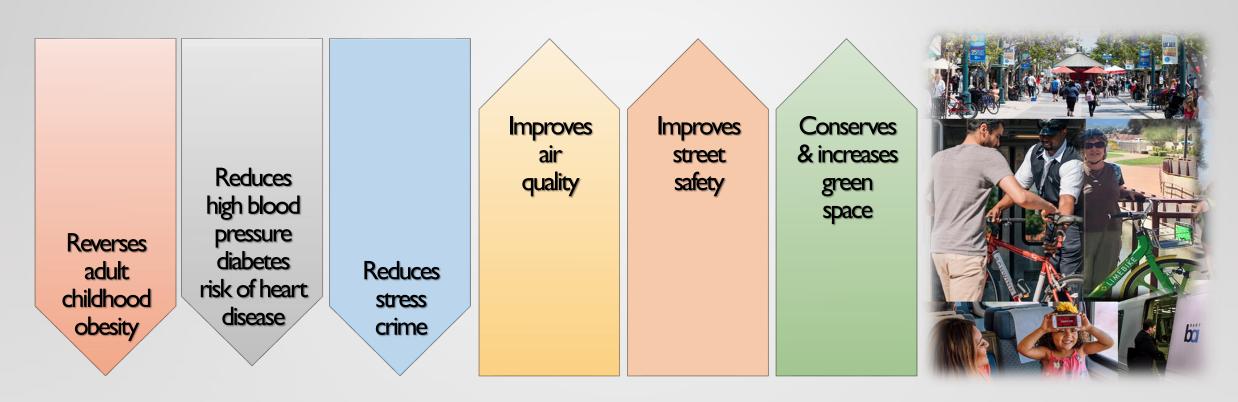
- About 20% of Californians have low physical activity
- Low physical activity is associated with heart disease, strokes, diabetes and obesity
 - About 80,000 deaths per year in CA from heart disease and strokes
 - CA has the 20th highest rate in the nation from deaths from diabetes
 - CA has the 24th highest obesity rate in the nation for youth ages 10 to 17



HOW LOCAL COMMUNITY DESIGN AND POLICY SUPPORT ACTIVE TRANSPORTATION?



HOW CAN ACTIVE TRANSPORTATION AND COMMUNITY DESIGN IMPROVE HEALTH AND WELLBEING?



Increasing physical activity through active transportation would be a substantial public health accomplishment

A CALL TO ACTION: EMISSION REDUCTIONS & IMPROVED PUBLIC HEALTH THROUGH ACTIVE TRANSPORTATION

Local agencies need to meet VMT & GHG targets

The public needs mobility options to reduce VMT & GHG

Resources available for local and regional governments

- Local, state, national and international policies and programs with an active transportation focus
- Tools to help determine program effectiveness
- Targeted research results on community design
- Funding support

VMT = Vehicle Miles Traveled GHG = Greenhouse Gases

LOCAL, STATE, NATIONAL & INTERNATIONAL AGENCIES ACTIONS ON ACTIVE TRANSPORTATION

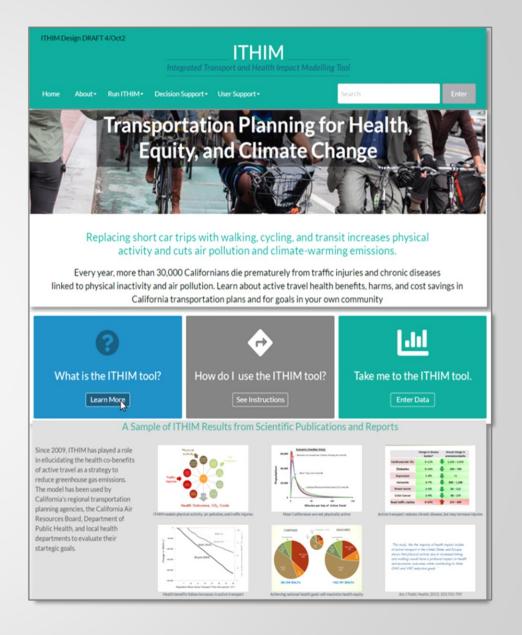
Many available resources of collaborative frameworks maximizing health & wellbeing



ACTIVE TRANSPORTATION TOOL: OVERVIEW

Integrated Transport and Health Impacts Model (ITHIM)

- Calculates health effects from changes in mode of transportation
- Health component of ITHIM includes
 - Changes in physical activity
 - Changes in exposure to air pollution
 - Risk for traffic injuries
- Estimates impacts by geographic area and in the future
- Available on the web



(RELEASE DATE FALL, 2019)

ACTIVE TRANSPORTATION TOOL: RESOURCES FOR ACTION

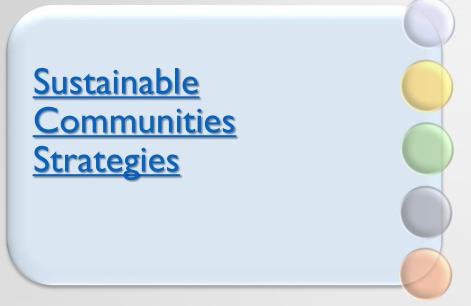
Integrated Transport and Health Impacts Model (ITHIM)

- Output: tables, graphs and infographics
 - Health benefits from active transportation
 - VMT and GHG reduction
 - Economic value of improved health
- Support: documents and reference lists
 - Relevant policies
 - References from the scientific literature for a broad health context
 - Tutorials
 - Videos, model methods & program code





COMMUNITY DESIGN RESEARCH TO ASSIST LOCAL DECISION-MAKERS



Equity impacts

Smart urban design

Impacts of urban design on modes of travel

Mobility options

Best practices

Resources:

ITHIM Tool: I- Introduction Video https://www.youtube.com/watch?v=LYVWk8kumOM

ITHIM Tool: 2- Beta Version http://cal-ithim.org/ithim/

Supporting Sustainable Communities https://ww2.arb.ca.gov/our-work/topics/sustainable-communities

Health Benefits of Physical Activity https://ww2.arb.ca.gov/resources/fact-sheets/health-benefits-physical-activity

Promoting Active Transportation https://www.arb.ca.gov/planning/tsaq/bicycle/ati.htm

FUNDING SUPPORT: CALIFORNIA CLIMATE INVESTMENTS



Transit & Intercity Rail
Capital CA State
Transportation Agency

Low Carbon Transit
Operations CA Department of
Transportation

Low Carbon Transportation
CA Air Resources Board

Programs that fund projects with active transportation components

Active Transportation

CA Department of Transportation Transformative Climate

Communities

Strategic Growth Council

Affordable Housing and Sustainable Communities
Strategic Growth Council

Urban Greening
CA Natural Resources Agency

Annual Report Cap-and-Trade Auction Proceeds 2019: http://www.caclimateinvestments.ca.gov/annual-report
Funding Wizard: https://fundingwizard.arb.ca.gov/about

CONCLUSION

COMMUNITY DESIGN AFFECTS HEALTH WITH EVERY STEP OUTSIDE THE FRONT DOOR

- Active transportation reduces VMT/GHG and improves public health
- Community design and policies enable active transportation most successfully when:
 - Mobility options & services are provided
 - Safe, supportive infrastructure & transit exists
 - High-density housing is available
 - Work, school, healthy food & green space are nearby
- Local agencies can maximize health & wellbeing by incorporating these design elements in their VMT/GHG reduction strategies

